

ABSTRACT

A safety mechanism of a utility lighter. In a first preferred embodiment, the safety mechanism includes a safety button and a cam mechanism having a fuel release lever, a cam lever, and a return spring. When the cam mechanism is in the locked position, the cam lever engages the stopper tab of the trigger to impede depression of the trigger, and the fuel release lever closes the fuel release valve. The cam mechanism is actuated by depressing the safety button. As the safety button is depressed, the cam lever is disengaged out of alignment with the stopper tab to permit depression of the trigger, the hub rotates, and the fuel release lever is actuated to open the fuel-release valve. As the safety button is released, the return spring urges the cam mechanism into the locked position. In a second preferred embodiment, the safety mechanism includes a lever spring and the cam mechanism having the fuel release lever and the safety button. When the cam mechanism is in the locked position, the lever spring engages the stopper tab to impede depression of the trigger, and the fuel release lever closes the fuel release valve.

The cam mechanism is actuated by depressing the safety button. As the safety button is depressed, the lever spring is disengaged out of alignment with the stopper tab to permit depression of the trigger, the hub rotates, and the fuel release lever is actuated to open the fuel-release valve. As the safety button is released, the lever spring urges the cam mechanism into the locked position.